

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
23 December 2004 (23.12.2004)

PCT

(10) International Publication Number
WO 2004/111246 A1

(51) International Patent Classification⁷: **C12N 15/85**

(21) International Application Number:
PCT/CH2004/000363

(22) International Filing Date: 16 June 2004 (16.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PCT/CH03/00398 19 June 2003 (19.06.2003) CH

(71) Applicant and

(72) Inventor: **BROMLEY, Peter** [GB/CH]; 18, rue Cavour,
CH-1203 Genève (CH).

(74) Agent: **ROLAND, André**; Avenue Tissot 15, CH-1001
Lausanne (CH).

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: **PROTEIN PRODUCTION SYSTEM**

(57) Abstract: A method for producing competent gene products in human cells, said method comprising the following steps: Providing a DNA construct in which a gene encoding a protein of interest is operably linked to a modified heat-inducible promoter; Introducing said DNA construct into a human cell line, either by transformation or by transfection to form transformed or transfected host cell lines; Subjecting said transformed or transfected cell lines to a transient increase in temperature and permitting the translation to protein to occur after the temperature has been returned to normal growth temperatures of the said host cells, whereby the production of said protein of interest occurs.

WO 2004/111246 A1